

to Interoperability

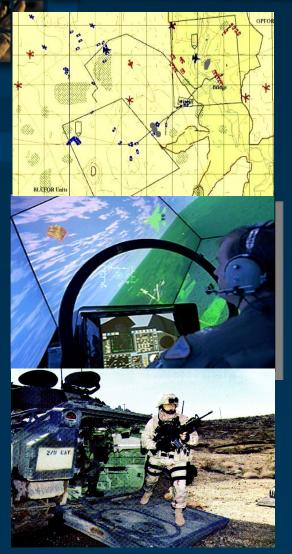
Chief Scientist & CTO

Approved for Public Release. Security and OPSEC Review Completed: No Issues.





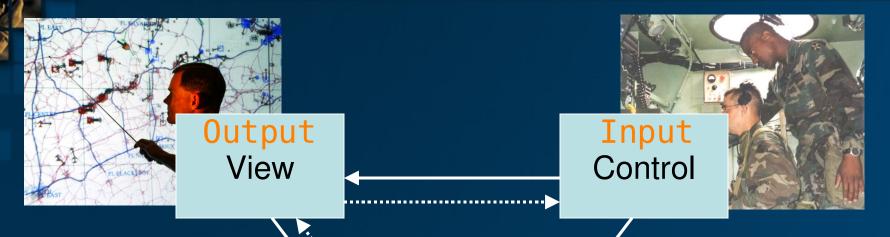
Testing, Training, and Operations

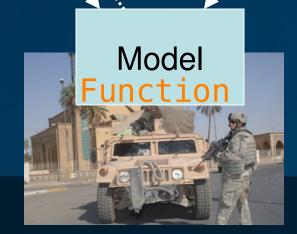






Model-View-Control (1979 Reenskaug)

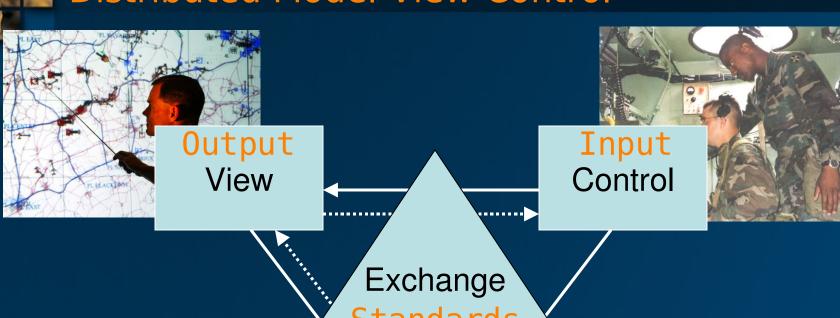




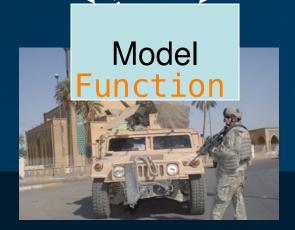
INTEROPERABILITY:POLICY TO PERFORMANCE

MILCOM 2007

Distributed Model-View-Control

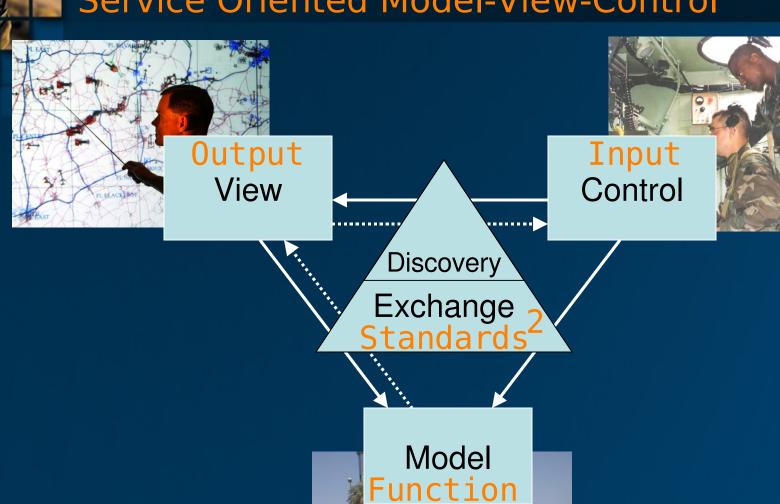


Standards



INTEROPERABILITY: POLICY TO PERFORMANCE

Service Oriented Model-View-Control



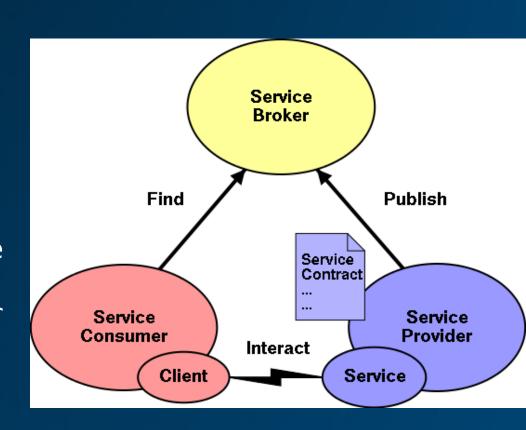


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INTEROPERABILITY:POLICY TO PERFORMANCE

Service Oriented Architecture

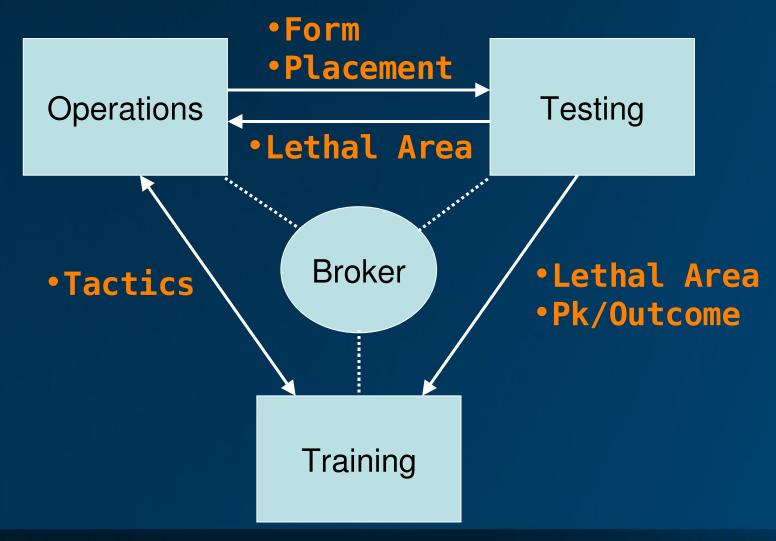
- Loosely-coupled relationships between providers and consumers
- Broker for registering and discovering services
- Ability to access a service/data that were originally unknown to the client
- Reliance on standards for data and services to enable interoperability







IED Example









- SOA is a hot buzzword and large system architecture solution
- Its key strength is in allowing applications and users to access services on-demand
- Many computer systems are hostage to their original designs
- SOA may allow new systems to work together without being designed and built together
- SOA can bridge Training, Testing, and Operations systems

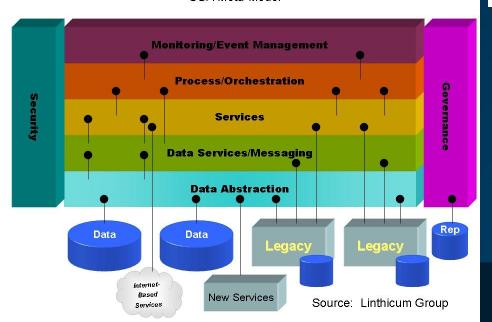




Infinite Illustrations



SOA Meta-Model



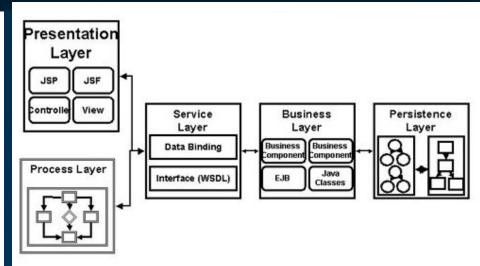


Fig 2. Different Layers of Service Oriented Applications

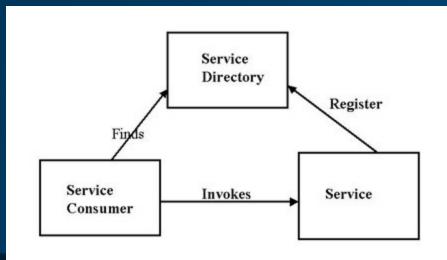


Fig 1. Service Oriented Architecture



Infinite Illustrations

